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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/600,927 06/19/2003	Chien-Chung Han	HAN0302	6209		
22192 7590 07/18/2005		EXAMINER			
LAW OFFICE OF LIAUH & ASSO	BRUENJES, CHRISTOPHER P				
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STE 5-388		ARTONII	PAPER NUMBER		
HONOLULU, HI 96816		1772			

DATE MAILED: 07/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application N	lo.	Applicant(s)				
Office Action Summary		10/600,927	٠	HAN, CHIEN-CHU	ING			
		Examiner		Art Unit				
		. Christopher P	Bruenjes ·	1772				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE M/ - Extension after Silver - If the per - If NO per - Failure - Any rep	RTENED STATUTORY PERIOD FOR FAILING DATE OF THIS COMMUNICAT ons of time may be available under the provisions of 37 CX (6) MONTHS from the mailing date of this communicative period for reply specified above is less than thirty (30) days eriod for reply is specified above, the maximum statutory to reply within the set or extended period for reply will, by ly received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, he on. , a reply within the statutory period will apply and will expectature, cause the application	owever, may a reply be tim minimum of thirty (30) days ire SIX (6) MONTHS from on to become ABANDONEC	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).				
Status	•							
2a)⊠ T 3)⊡ S	tesponsive to communication(s) filed on this action is FINAL . 2b) ince this application is in condition for allosed in accordance with the practice ur	This action is non-f	formal matters, pro		ments is			
	n of Claims		•		•			
5)□ C 6)図 C 7)□ C	Claim(s) 1-38 is/are pending in the application of the above claim(s) 24-38 is/are with claim(s) is/are allowed. Claim(s) 1-23 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and claim(s) are subject to restriction are subject to restriction and claim(s) are subject to restriction and claim(s) are subject to restriction are subject to restriction and claim(s) are subject to restriction are subject to res	hdrawn from conside						
Application	n Papers	•						
10)⊠ Th A R	ne specification is objected to by the Exame drawing(s) filed on 19 June 2003 is/al pplicant may not request that any objection the pplacement drawing sheet(s) including the case oath or declaration is objected to by the	re: a) accepted o the drawing(s) be he correction is required if	eld in abeyance. See the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CF	• •			
Priority un	der 35 U.S.C. § 119							
a)□ 1. 2. 3.	cknowledgment is made of a claim for for All b) Some * c) None of: Certified copies of the priority docu Copies of the certified copies of the application from the International Be the attached detailed Office action for	ments have been re ments have been re e priority documents ureau (PCT Rule 17	ceived. ceived in Application have been receive (.2(a)).	on No ed in this National S	Stage			
Attachment(s))							
2) Notice of 3) Information	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-94 tion Disclosure Statement(s) (PTO-1449 or PTO/S lo(s)/Mail Date	8)	Interview Summary (Paper No(s)/Mail Da Notice of Informal Pa Other:	ite	-152)			
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PTOL-326 (Rev. 1-04)

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on May 16, 2005 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of US Patents 6,506,323 and 6,602,567 has been reviewed and is accepted. The terminal disclaimer has been recorded.

WITHDRAWN REJECTIONS

2. The double patenting rejections of record in the Office
Action mailed February 17, 2005, Pages 5-8 Paragraphs 4-5, have
been withdrawn due to Applicant's filing of the terminal
disclaimer filed May 16, 2005.

REPEATED REJECTIONS

3. The 35 U.S.C. 102 rejections of claims 1-3, 5-6, 9, and 14-19 as anticipated by Haggard et al are repeated for the reasons set forth in the previous Office Action mailed February 17, 2005, Pages 8-11 Paragraph 6.

Regarding the newly added limitation to claims 1 and 16 that the plurality of carbonized carbon tubes are "intimately adjoined", Haggard et al teach that in at least one embodiment

the core only and not the sea section or binder joining the carbonized carbon tubes is a dissolvable polymer component (p.4, paragraph 35). Therefore, in at least that embodiment Haggard et al teach that the sea section or binder remains after carbonization. Thus, the carbonized carbon tubes are "intimately adjoined." Furthermore, even in an embodiment in which the sea section or binder is a dissolvable polymer component, the definition of dissolvable polymer used in the Haggard et al reference includes partially dissolvable polymers, which means that a plurality of the carbonized carbon tubes could still be intimately adjoined while some of the sea section is dissolved.

- 4. The 35 U.S.C. 103 rejections of claims 4, 7, 10-13, 20, 21, and 23 over Haggard et al in view of Tour et al are repeated for the reasons set forth in the previous Office Action mailed February 17, 2005, Pages 12-13 Paragraph 7.
- 5. The 35 U.S.C. 103 rejection of claim 8 over Haggard et al in view of Moy et al is repeated for the reasons set forth in the previous Office Action mailed February 17, 2005, Pages 14-15 Paragraph 8.

ANSWERS TO APPLICANT'S ARGUMENTS

- 6. Applicant's arguments regarding the double patenting rejections of record have been considered but they are moot since the rejections have been withdrawn.
- 7. Applicant's arguments regarding the 35 U.S.C. 102 rejections of claims 1-3, 5-6, 9, and 14-19 as anticipated by Haggard et al have been fully considered but they are not persuasive.

In response to Applicant's argument that the carbonized carbon tubes are "intimately adjoined" is not taught by Haggard et al, Haggard et al teach that in at least one embodiment the core only and not the sea section or binder joining the carbonized carbon tubes is a dissolvable polymer component (p.4, paragraph 35). Therefore, in at least that embodiment Haggard et al teach that the sea section or binder remains after carbonization. Thus, the carbonized carbon tubes are "intimately adjoined." Furthermore, even in an embodiment in which the sea section or binder is a dissolvable polymer component, the definition of dissolvable polymer used in the Haggard et al reference includes partially dissolvable polymers, which means that a plurality of the carbonized carbon tubes

could still be intimately adjoined while some of the sea section is dissolved.

In response to Applicant's argument that the carbon tubes claimed are assembled/adjoined in their precursor form prior to their being carbonized, when the carbon tubes are assembled/adjoined is not germane to the issue of patentability of the article. Assembling prior to carbonization or after carbonization can make the same final article, absent the showing of unexpected result.

In response to Applicant's argument that Haggard et al teach carbon tubes spaced apart rather than the claimed intimately adjoined, as stated above in at least one embodiment the tubes are joined by the sea section even after carbonization and therefore can be considered to be intimately adjoined.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the coating materials are not melt-processible) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988

F.2d 1181; 26 USPQ2d 1057 (Fed. Cir. 1993).

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In response to Applicant's argument that the sea section of Haggard et al makes the carbon tubes physically separated from each other instead of contacting each other, the limitation "intimately adjoined" in its broadest reasonable interpretation includes any tubes that are fully joined to each other, regardless of whether another material is used to make that joinder.

In response to Applicant's argument that the sea section is dissolvable and therefore cannot be considered a binding agent, Haggard et al does not require that he sea section be dissolvable. Haggard et al specifically teaches that the core and/or the sea section are made of dissolvable polymer. This teaching provides three embodiments, one of which includes only the core as the dissolvable polymer.

8. Applicant's arguments regarding the 35 U.S.C. 103 rejections of claims 4, 7, 10-13, 20, 21, and 23 over Haggard et al in view of Tour have been fully considered but they are not persuasive.

In response to Applicant's arguments regarding the independent claims not being fully taught by Haggard et al, look to the answers presented above.

In response to Applicant's argument that the microwave radiation of Tour is applied after they are formed rather than before the tubes are carbonized as claimed, regardless of when the tubes are adjoined, the final product still includes intimately adjoined carbon tubes as that limitation is defined in its broadest reasonable interpretation of fully joined. The fact that the adjoining carbon tubes of Figure 7 of the instant invention share common walls is not germane to the claimed invention because intimately adjoined does not require the tubes share a common wall. Furthermore, once two materials of the same composition are crosslinked together as accomplished in the Tour reference the two walls of the individual tubes would not be distinguishable and would be considered one common wall, regardless of whether the walls were bound together before or after carbonization.

9. Applicant's arguments regarding the 35 U.S.C. 103 rejection of claim 8 over Haggard in view of Moy have been fully considered but they are not persuasive.

In response to Applicant's arguments regarding the independent claims not being fully taught by Haggard et al, look to the answers presented above.

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In response to Applicant's argument that the microwave radiation of Tour is applied after they are formed rather than before the tubes are carbonized as claimed, regardless of when the tubes are adjoined, the final product still includes intimately adjoined carbon tubes as that limitation is defined in its broadest reasonable interpretation of fully joined. fact that the adjoining carbon tubes of Figure 7 of the instant invention share common walls is not germane to the claimed invention because intimately adjoined does not require the tubes share a common wall. Furthermore, once two materials of the same composition are crosslinked together as accomplished in the Moy reference the two walls of the individual tubes would not be distinguishable and would be considered one common wall, regardless of whether the walls were bound together before or after carbonization.

Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action

is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P Bruenjes whose telephone number is 571-272-1489. The examiner can normally be reached on Monday thru Friday from 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher P Bruenjes Examiner

Art Unit 1772

CPB CPB

July 13, 2005

HAROLD PYON SUPERVISORY PATENT EXAMINER 1/14/05